

*FIG.* 3

## Measured Differential Pressure Drop $\Delta P_{58,\,60}$ Plugging Occurs at the Impingement Insert

Plugged at Forward Insert Impingement Holes 18 = 223

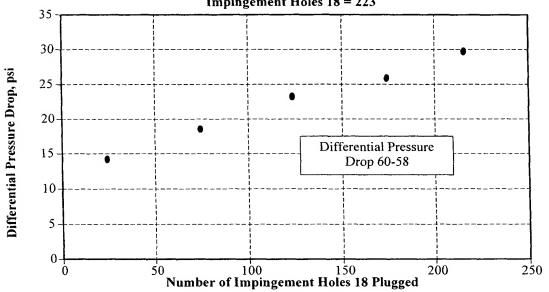


FIG. 4

## Measured Differential Pressure Drop $\Delta P_{58, 60}$ Plugging Occurs at the Suction Side Film Holes

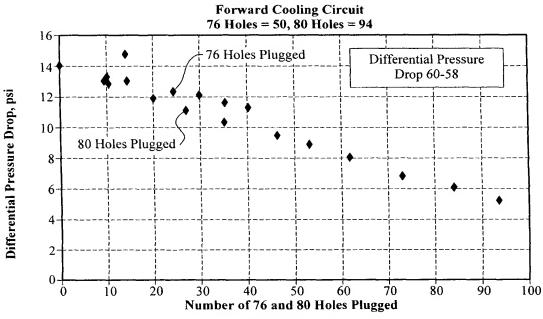
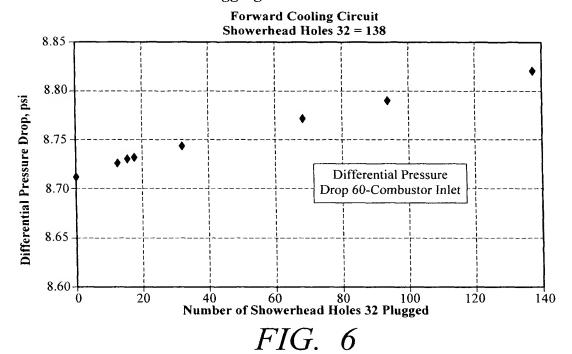
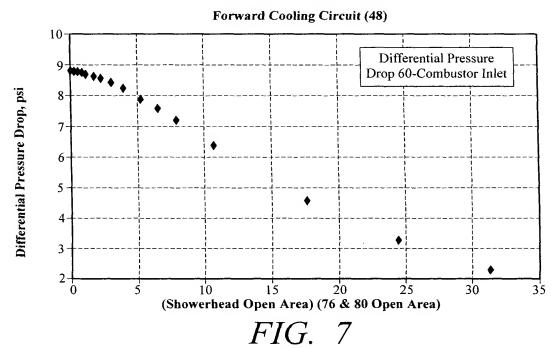


FIG. 5

## Measured Differential Pressure Drop $\Delta P_{60\text{-}Combustor\ Inlet}$ Plugging at the Shower Head



Measured Differential Pressure Drop  $\Delta P_{60\text{-}Combustor\ Inlet}$  Burn-off Shower Head



## Measured Differential Pressure Drop $\Delta P_{72, 70}$ Plugging Occurs at the Pressure Side Film Holes

Mid-Cooling Circuit, 72, 70 Pressure Drop 82 Holes = 50, 84 Holes = 110

